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94	AA	4,580,263	04/01/86	Watanabe	et al.				10/21	/83
99	AB	5,621,764	04/15/97	Ushiroka	wa et al	•			6/21/9)5
99	AC	5,751,726	05/12/98	Kim, You	ı Taeq				8/9/95	5
94	AD	5,790,595	8/04/98	Benthin e	t al.				9/5/95	5
99	AE	5,968,198	10/19/99	Hassan et	al.				8/16/9	96
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Na	AL	WO 2004/045078 A2	5/27/04	PCT		Kim et al.			YES	NO.
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			U.S.	PATENT DOCUMENTS	S				
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65	AA	5,181,136	1/19/1993	Kavehrad et al.				9/20/199	0
QG,	AB	5,625,722	4/29/1997	Froberg et al.				12/21/19	94
QG	AC	6,002,717	12/14/1999	Gaudet, Brian	····			5/28/199	7
99	AD	6,388,786 B1	5/14/2002	Ono et al.	_			6/13/200	0
QG_	AE	6,421,155 B1	7/16/2002	Yano, Yutaka				5/27/199	8
QG	AF	6,501,792 B2	12/31/2002	Webster, Stephen Paul				9/6/2001	
97	AG	6,665,500 B2	12/16/2003	Snawerdt, Peter	and the second			1/29/200	1
99	АН	2002/0196508 A1	12/26/2002	Wei et al.				10/4/200	1
. QG	Al	2003/0002121 A1	1/2/2003	Miyamoto et al.				6/26/200	2
99	AJ								
99	AK		·						
			FOREI	GN PATENT DOCUME	NTS				
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY		NAME	• • • • • • • • • • • • • • • • • • • •	TRANSL. YES	NO NO
09	AL	WO 02/067521 A1	8/29/2002	PCT	Vrazel et al.				
29	ΑM	WO 02/091600 A2	11/14/2002	PCT	Schmukler e	t al.			
99	AN	WO 03/077423 A2	9/18/2003	РСТ	Hietala et al	•	- <u></u>		·
05	AO	WO 03/092237 A1	11/6/2003	PCT	Vrazel et al.				
95	AP	WO 2004/008782 A	2 1/22/2004	PCT	Kim et al.	•			
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[OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)
64	BA	Choi et al.; A 0.18-µm CMOS 3.5-Gb/s Continuous-Time Adaptive Cable Equalizer Using Enhanced Low-Frequency Gain Control Method; IEEE Journal of Solid-State Circuits; March 2004; Vol. 39, No. 3; pp. 419-425
QC,	ВВ	Paul, et al.; 3 Gbit/s Optically Preamplified Direct Detection DPSK Receiver With 116 photon/bit Sensitivity; Electronics Letters; Vol. 29, No. 7; April 1, 1993; pp. 614-615
94	ВС	Penninckx et al.; Optical Differential Phase Shift Keying (DPSK) Direct Detection Considered as a Duobinary Signal; Proc. 27 th Eur. Conf. on Opt. Comm. (ECOC'01 – Amsterdam); Vol. 3; September 30 to October 4, 2001; pp. 456-457
99	BD	Rohde et al.; Robustness of DPSK Direct Detection Transmission Format in Standard Fibre WDM Systems; Electronics Letters; Vol. 36, No. 17; August 17, 2000; pp. 1483-1484
Qg	BE	Shirasaki et al.; Fibre Transmission Properties of Optical Pulses Produced Through Direct Phase Modulation of DFB Laser Diode; Electronics Letters; Vol. 24, No. 8; April 14, 1988; pp. 486-488
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Q	AA	2,632,058	3/17/1953	Frank Gray			11/13/1947
99	AB	3,445,771	5/20/1969	Clapham et al.			2/28/1966
99	AC	3,571,725	3/23/1971	Kaneko et al.			5/22/1968
99	AD	3,714,437	1/30/1973	Tracy Stewart Kinsel			8/14/1970
99	AE	3,806,915	4/23/1974	Higgins et al.			9/5/1972
69	AF	3,977,795	8/31/1976	Buschmann, Hans-Theo		·	2/11/1974
<i>@</i> 6	AG	4,287,756	9/8/1981	Gallagher, John J.			10/24/1979
99	AH	4,349,914	9/14/1982	Evans, Randall G.		·	4/1/1980
95	AI	4,363,127	12/7/1982	Evans et al.			1/12/1981
99	AJ	4,386,339	5/31/1983	Henry et al.			4/5/1982
99	AK	4,387,461	6/7/1983	Evans, Randall G.			3/11/1981
09	AL	4,393,499	7/12/1983	Evans, Randall G.			3/11/1981
04	AM	4,464,771	8/7/1984	Sorensen, Bendt H.			4/2/1982
29	AN	4,470,126	9/4/1984	Yusuf A. Haque			10/29/1981
99	AO	4,479,266	10/23/1984	Eumurian et al.			8/10/1982
99	AP	4,521,883	6/4/1985	Roché, Bernard			6/21/1982
Qq	AQ	4,584,720	4/22/1986	Ian Garrett			8/30/1983
09	AR	4,618,941	10/21/1986	Linder et al.			9/19/1983
Q7	AS	4,651,026	3/17/1987	Serfaty et al.			6/11/1984§

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GG	BA	4,751,497	6/14/1988	Toshihiro Torii	 		4/18/1986
84	ВВ	4,830,493	5/16/1989	Giebeler, Robert			10/29/1987
99	ВС	4,847,521	7/11/1989	Huignard et al.			12/22/1987
94	BD	4,864,590	9/5/1989	Arnon et al.			6/30/1988
Q; .	BE	4,912,726	3/27/1990	Iwamatsu et al.			1/8/1988
Q;	BF	4,942,593	7/17/1990	Whiteside et al.			3/16/1989
94	BG	4,959,535	9/25/1990	Ian Garrett			10/10/1989
96	вн	4,978,957	12/18/1990	Hotta et al.			2/6/1990
99	BI	5,007,106	4/9/1991	Kahn et al.			11/8/1989
69	BJ	5,008,957	4/16/1991	Mikio Klyono			3/3/1989
99	BK	5,012,475	4/30/1991	Bruce D. Campbell			4/17/1990
89	BL	5,067,126	11/19/1991	Moore, Thomas E.			8/4/1989
99	ВМ	5,072,221	12/10/1991	Schmidt, Robert R.			8/4/1988
99	BN	5,111,065	5/5/1992	James K. Roberge			3/23/1990
99	ВО	5,113,278	5/12/1992	Degura et al.			4/20/1990
99	BP	5,115,450	5/19/1992	Arcuri, Salvatore			7/6/1989
99	BQ	5,121,411	6/9/1992	Fluharty, Kevin L.			7/24/1990
85	BR	5,128,790	7/7/1992	Heidemann et al.			9/12/1991
96	BS	5,132,639	7/21/1992	Blauvelt et al.			2/8/1991

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Q4	DA	5,351,148	9/27/1994	Maeda et al.			5/26/1993
97	DB	5,355,240	10/11/1994	Prigent et al.			9/1/1992
99	DC	5,361,156	11/1/1994	Rezin E. Pidgeon			12/9/1991
QG	DD	5,371,625	12/6/1994	Wedding et al.			1/29/1993
69	DE	5,373,384	12/13/1994	Jean-Paul Hebert			7/30/1993
99	DF	5,376,786	12/27/1994	MacDonald, R. Ian			4/22/1993
99	DG	5,382,955	1/17/1995	Knierim, Daniel G.			11/4/1993
QG	DH	5,387,887	2/7/1995	Zimmerman et al.			3/4/1994
Ø5	DI	5,408,485	4/18/1995	Gordon W. Ries			5/11/1994
99	DJ	5,413,047	5/9/1995	Evans et al.			10/15/1993
93	DK	5,416,628	5/16/1995	Betti et al.			11/9/1992
99	DL	5,418,637	5/23/1995	Chien-Yu Kuo			5/16/1994
69	DM	5,424,680	6/13/1995	Nazarathy et al.			11/30/1993
95	DN	5,428,643	6/27/1995	Razzell, Charles J. H.			7/28/1993
05	DO	5,436,752	7/25/1995	Wedding, Berthold	-		10/28/1993
49	DP	5,436,756	7/25/1995	Knox et al.			9/30/1992
99	DQ	5,450,044	9/12/1995	Timothy P. Hulick			4/14/1993
99	DR	5,481,389	1/2/1996	Pidgeon et al.			10/9/1992
Q.G	DS	5,481,568	1/2/1996	Yada, Hiroaki			12/21/1994

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94	CA	5,151,698	9/29/1992	Lucien Pophillat			9/18/1990
99	СВ	5,181,034	1/19/1993	Takakura et al.			4/29/1992
Qq	СС	5,184,131	2/2/1993	Ikeda, Hiroshi			6/20/1990
99	CD	5,208,833	5/4/1993	Erhart et al.			4/8/1991
99	CE	5,222,103	6/22/1993	Richard W. Gross		• .	1/2/1991
99	CF	5,223,834	6/29/1993	Wang et al.			11/29/1991
97	CG	5,225,798	7/6/1993	Hunsinger et al.			5/31/1991
99	СН	5,237,590	8/17/1993	Kazawa et al.			12/11/1991
99	CI	5,243,613	9/7/1993	Gysel et al.			11/5/1991
99	CJ	5,252,930	10/12/1993	Henry A. Blauvelt			7/21/1992
99	СК	5,282,072	1/25/1994	Nazarathy et al.			11/19/1991
99	CL	5,283,679	2/1/1994	Wedding, Berthold			12/10/1991
99	СМ	5,291,031	3/1/1994	MacDonald et al.			4/6/1992
99	CN	5,293,406	3/8/1994	Hiroshi Suzuki			3/11/1992
99	со	5,300,930	4/5/1994	Burger et al.			10/29/1991
99	СР	5,321,543	6/14/1994	Huber, David R.			10/20/1992
99	cq	5,321,710	6/14/1994	Comish et al.			4/19/1993
99	CR	5,327,279	7/5/1994	Farina et al.			7/17/1992
94	CS	5,343,322	8/30/1994	Pirio et al.			12/23/1992

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Sq	EA	5,504,633	4/2/1996	Gijsbert J. Van Den Enden			11/21/1994
99	EB	5,510,919	4/23/1996	Berthold Wedding			11/28/1994
QG	EC	5,528,710	6/18/1996	Burton et al.	·		5/5/1993
99	ED	5,548,253	8/20/1996	Randolph L. Durrant			4/17/1995
Œ	EE	5,574,743	11/12/1996	van der Poel et al.			3/21/1995
99	EF	5,589,786	12/31/1996	Bella et al.			6/1/1995
09	EG	5,612,653	3/18/1997	Dodds et al.			6/7/1995
09	ЕН	5,625,360	4/29/1977	Garrity et al.			9/5/1995
QL	EI	5,644,325	7/1/1997	King et al.			12/12/1994
99	EJ	5,670,871	9/23/1997	Man et al.			7/16/1996
CO.	EK	5,675,600	10/7/1997	Yamamoto			6/11/1996
QG	EL	5,678,198	10/14/1997	Paul H. Lemson			5/15/1995
99	ЕМ	5,689,356	11/18/1997	Attilio Joseph Rainal			7/26/1996
QG	EN	5,706,008	1/6/1998	Huntley, Jr. et al.		·	3/1/1996
0,9	EO	5,721,315	2/24/1998	Evans et al.			8/16/1995 [.]
69	EP	5,723,176	3/3/1998	Keyworth et al.			7/8/1996
Qq	EQ	5,754,681	5/19/1998	Watanabe et al.			6/22/1995
94	ER	5,757,763	5/26/1998	Green et al.			6/13/1997
QG	ES	5,761,243	6/2/1998	Russell et al.			5/3/1996

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99	FA	5,764,542	6/9/1998	Gaudette et al.			1/11/1996
99	FB	5,783,630	7/21/1998	Evans et al.			7/7/1995
95	FC	5,784,032	7/21/1998	Johnston et al.			11/1/1995
QG	FD	5,798,854	8/25/1998	Blauvelt et al.			11/27/1996
Qg	FE	5,801,657	9/1/1998	Fowler et al.		·	2/5/1997
93	FF	5,802,089	9/1/1998	Garry N. Link			10/22/1996
O's	FG	5,812,578	9/22/1998	Schemmann et al.			6/16/1995
Qq	FH	5,825,211	10/20/1998	Smith et al.			10/22/1997
05	FI	5,825,257	10/20/1998	Klymyshyn et al.			6/17/1997
64	FJ	5,825,825	10/20/1998	Altmann et al.	,		9/17/1996
95	FK	5,828,329	10/27/1998	Burns, Lawrence M.			12/5/1996
Ø3	FL	5,839,105	11/17/1998	Ostendorf et al.			11/29/1996
99	FM	5,841,841	11/24/1998	Dodds et al.			3/14/1996
99	FN	5,844,436	12/1/1998	Altmann, Michael			11/6/1996
04	FO	5,848,139	12/8/1998	Grover, Wayne D.			11/19/1996
Q'	FP	5,850,409	12/15/1998	Garry N. Link			3/21/1997
04	FQ	5,850,505	12/15/1998	Grover et al.			11/1/1995
99	FR	5,852,389	12/22/1998	Kumar et al.			4/17/1997
Qq	FS	5,859,862	1/12/1999	Hikasa et al.			6/20/1995

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95	GA	5,861,966	1/19/1999	Ortel, William G.			12/27/1995
Q's	GB	5,872,468	2/16/1999	Dyke, Peter J.			6/12/1997
œq	GC	5,878,390	3/2/1999	Kawai et al.			6/23/1997
Q3	GD	5,880,870	3/9/1999	Sieben et al.			10/28/1996
Φ 7	GE	5,883,910	3/16/1999	Garry N. Link			7/3/1997
69	GF	5,887,022	3/23/1999	Lee et al.			6/12/1996
69	GG	5,889,759	3/30/1999	McGibney, Grant			8/13/1996
69	GH	5,896,392	4/20/1999	Ono et al.			6/19/1997
95	Gl	5,912,749	6/15/1999	Harstead et al.			2/11/1997
99	GJ	5,920,600	7/6/1999	Yamaoka et al.			9/17/1996
99	GK	5,923,226	7/13/1999	Kakura et al.			8/12/1997
95	GL	5,942,576	8/24/1999	Evans et al.			11/3/1997
ρĠ	GM	5,943,380	8/24/1999	Marchesani et al.			3/28/1997
09	GN	5,943,457	8/24/1999	Hayward et al.			3/24/1998
99	GO	5,949,926	9/7/1999	Davies, Robert J.			12/15/1997
99	GP	5,959,032	9/28/1999	Evans et al.			7/8/1996
99	GQ	5,959,750	9/28/1999	Eskildsen et al.	·		6/6/1996
99	GR	5,965,667	10/12/1999	Evans et al.			11/3/1997
94	GS	5,983,178	11/9/1999	Naito et al.		-	12/10/1998

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99	HA	5,985,999	11/16/1999	Dominguez et al.		_	4/23/1997
94	НВ	5,999,300	12/7/1999	Davies et al.			6/12/1997
99	нс	6,002,274	12/14/1999	Smith et al.			9/29/1995
99	HD	6,009,424	12/28/1999	Lepage et al.			9/3/1997
96	HE	6,021,110	2/1/2000	McGibney, Grant			1/26/1999
99	HF	6,028,658	2/22/2000	Hamada et al.			11/25/1998
99	HG	6,031,048	2/29/2000	Evans et al.			7/12/1996
Ğç	нн	6,031,866	2/29/2000	Oler et al.			5/30/1997
Qς	ні	6,031,874	2/29/2000	Chennakeshu et al.			9/26/1997
65	m	6,034,996	3/7/2000	Herzberg, Hanan	7, 4		10/2/1997
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